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**PATENT TEXT**

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*Willy Schröder in Dülken*  
*has been named as the inventor*

Willy Schröder in Dülken

Shoe

Patented within the Republic of Germany on March 1949 forward  
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Description

The present invention concerns all shoe ware, in particular, shoe ware which is constructed of rubber or plastics and exhibits a fault in regard to inlet of sufficient air, which carries disadvantages for the wearer, namely, excessive perspiring of the foot.

A sole of usual commercial material allows no breathing for the shoe, on which account a number of persons are subjected to the difficulties of sweating of the feet. In any case, a fault of a deficiency of air admission into the shoe is detrimental to health.

The present invention avoids such difficulties, due to its provision of ventilation in the lower sections of shoe construction, specifically, in the sole and heel.

The invented shoe possesses air passages, which, in connection with a cushion of sponge rubber (or its equivalent) which serves as a pump, enable and activate breathing in the shoe during its use, such as in walking.

An embodiment shown in the attached drawing demonstrates the principle of the invention. There is shown in:

- Fig. 1 a plan view of the outer sole,
- Fig. 2 an inlay, supporting the ball of the foot
- Fig. 3 an intermediate layer of the heel
- Fig. 4 a plan view of the insole, and
- Fig. 5 a midsole insert of the shoe, and
- Fig. 6 a profile view of the above components in their assembled state.

The outer sole 1 can consist of leather, rubber or materials of equivalent substance. In the middle of the front face of the heel projection, the outer sole 1 is penetrated by an opening 2. At the ball of the foot, is inserted a ball inlay 3, which for example, is made of sponge rubber. Inside of the ball inlay 3 are provided air passages 4. The interleaved or lower placed heel layer 5, possesses a cut-out 6, tapering itself downward to fit the front face of the heel. Underneath this is found the ground contacting layer of the heel, namely outer layer 8. The insole 9 has a partial, peripherally extending lip 10. This insole 9 is perforated by holes 11 of one diameter and holes 12 of different diameter.

A midsole piece 13 is bulged and has an opening 14 at the forward part of the heel. This piece 13 can be made of steel or aluminum. The said bulge forms a passage 15, which communicates with the above described openings 12 of the outer sole 1 and with the passages 4 of the ball inlay 3. These passages 4 run both longitudinally along the sole and also transverse thereto. This distribution of the passages 4 is done in such a manner, that they intercept the openings 11 in the insole 9. The opening 6 in the heel layer 5 has in common the opening 2 in the outer sole, the opening 14 in the midsole piece 13 as well as an opening 12 in the insole 9. The opening 6, at the front face 7 of the heel projection, can be covered by a screen or in bad weather this opening can be completely blocked by a sliding leaf or a stopper (not shown).

The passage system, so constructed and especially in combination with the cushion of the ball inlay 3, achieves a ventilation effect, i.e. a breathing, which serves good health, since the already used air is expelled during the roll and lift sequence of a stride,

so that fresh air is drawn inward. In this way, a natural breathing of the foot is established.

No application of the invention brings about manufacturing conditions, such as requiring a complete renovation of the production. The applications of the invention will increase first, due to its sales potential and second, because of its export to tropical lands.

## CLAIMS

Claimed is:

1. A shoe, characterized by ventilation means in its under structure (sole and heel).
2. A shoe in accord with claim 1, characterized by air passages which apportion themselves throughout the heel and sole construction.
3. A shoe in accord with one of the claims 1 and 2, therein characterized, in that the insole (9) possesses perforations (11, 12).
4. A shoe in accord with one of the claims 1 to 3, therein characterized, in that the outer sole (1) is provided with an air passage opening (2), which extends a section of itself (6) up to the middle and/or under part of the forward face (7) of the heel projection and at that place opens itself outward in a tapering opening.
5. A shoe in accord with one of the claims 1 to 4, therein characterized, in that provision is made for an midfoot piece (13) with a penetrative opening (14) proximal to the front (7) of the heel, the longitudinal extent of said midfoot piece (13) being formed into a bowed shape (15) creating an opening against the insole (9).
6. A shoe in accord with one of the claims 1 to 5, therein characterized, by an elastic sponge rubber, ball inlay (3), which provides a pumping service.

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7. A shoe in accord with claim 6, therein characterized, in that the ball inlay (3) also possesses air passages (4).
  8. A shoe in accord with one of the claims 1 to 4, therein characterized, in that the entry cutout (6) of the air passage in the heel parts (5, 8) possesses a forward placed screen.
  9. A shoe in accord with one of the claims 1 to 7, therein characterized, in that the entry cutout (6) is provided with a closure, namely for example, a sliding leaf or a plug.

*(Herewith one page with 6 Figures)*

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**That I am knowledgeable in the English language, and in the German language of the patent application from which priority is claimed for this application;**

**The priority document is attached.**

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**I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.**

**The priority document attached is further identified as:**

**DE 800 364  
title, "Shoe"**

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